

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application. The following amendments do not constitute an admission regarding the patentability of the amended subject matter and should not be so construed. Applicants reserve the right to pursue the cancelled subject matter in this or any other appropriate patent application. Applicants believe that the following amendments add no new matter.

**Please amend the Claims as follows:**

1. (Currently amended) A vaccine composition containing human TGF $\alpha$  "hTGF $\alpha$ ", wherein said hTGF $\alpha$  comprises the amino acid sequence of SEQ ID NO 2 or its combination with other EGF-R ligands, coupled with any carrier protein by genetic cloning before expression of said proteins or by chemical conjugation after expression of said proteins, wherein said vaccine ~~that~~ contains an adjuvant, wherein said vaccine is able to produce a specific immune response against said hTGF $\alpha$ , and wherein said carrier protein is P64k.

2. (Previously amended) The vaccine composition according to claim 1 containing recombinant human TGF $\alpha$ .

3. (Cancelled)

4. (Currently amended) The vaccine composition according to claim 1 that contains a recombinant fusion protein between hTGF $\alpha$  and P64k wherein a gene encoding said fusion protein is cloned in an expression vector system and expressed in mammalian cells, bacteria or yeast.

5. (Currently amended) The vaccine composition according to claim 1 that contains a recombinant fusion protein between hTGF $\alpha$  and P64k wherein a gene encoding said fusion protein is cloned in an expression vector of bacteria and expressed in E. coli.

6. (Previously amended) The vaccine composition according to claim 1 that contains a recombinant fusion protein between hTGF $\alpha$  and P64k wherein a gene encoding said fusion

protein is cloned in an expression vector of bacteria that presents a genetic sequence coding for six histidines in the N-terminal end of P64k and is expressed in *E. coli*.

7. (Currently amended) The vaccine composition according to claim 1 wherein that  
hTGF $\alpha$  and P64k are coupled by a chemical method.

8. (Currently amended) The vaccine composition according to claim 1 that contains  
hTGF $\alpha$ , EGF and P64k coupled by a chemical method.

9. (Currently amended) The vaccine composition according to claim 1 that contains  
hTGF $\alpha$ , EGF and P64k in a recombinant fusion protein wherein a gene encoding said fusion  
protein is cloned in an expression vector of bacteria and expressed in *E. coli*.

10. (Currently amended) A vaccine composition comprising a mix of two vaccine  
preparations containing P64k coupled by a chemical method to hTGF $\alpha$  or EGF respectively in  
the moment of the injection, wherein said hTGF $\alpha$  comprises the amino acid sequence of SEQ ID  
NO 2.

11. (Currently amended) A vaccine composition comprising a mix of two vaccine  
preparations containing fusion proteins between the P64k and hTGF $\alpha$  or EGF respectively in the  
moment of injection, wherein said hTGF $\alpha$  comprises the amino acid sequence of SEQ ID NO 2.

12. (Previously amended) The vaccine composition according to claim 1 wherein the  
adjuvant is incomplete adjuvant of Freund.

13. (Previously amended) The vaccine composition according to claim 1 wherein the  
adjuvant is Al(OH)<sub>3</sub>.

14. (Withdrawn) A method of immunization comprising, administration of the  
immunization method with a vaccine composition according to claim 1, wherein administration  
of the vaccine able to achieves specific antibodies against hTGF $\alpha$ .

15. (Withdrawn) The Treatment method according to claim 14, able to generate wherein  
anti-hTGF $\alpha$  antibodies are generated, which anti-hTGF $\alpha$  antibodies are capable of avoid the  
inhibiting binding of TGF $\alpha$  bind to its receptor in an in vitro experiment.

16. (Withdrawn) ~~The Treatment~~ method according to claim 14, ~~wherein able to generate~~ anti-hEGF antibodies are generated.

17. (Withdrawn) ~~The Treatment~~ method according to claim 14, ~~able to generate wherein~~ anti-hTGF $\alpha$  antibodies are generated, which anti-hTGF $\alpha$  antibodies are able of to recognize TGF $\alpha$  in human tumor biopsies.

18. (Withdrawn) ~~A Method method of treatment of treating a malignant disease, wherein~~ the malignant disease is selected from among diseases, such as epidermoide breast carcinomas, prostate cancers, gastric cancers, and ovary epithelial cancer, which cancer that expresses hTGF $\alpha$  and other ligands of EGF-R, ~~such as EGF, with comprising administering the a-vaccine~~ composition ~~aeecording to of~~ claim 1.

19. (New) The method of claim 18, wherein said other ligand of EGF-R is EGF.